

**NEW MEXICO OIL CONSERVATION COMMISSION**  
**MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL**

Form C-122  
 Revised 9-1-65

|                                                                                                                           |             |                         |                   |                                           |                      |                                                   |
|---------------------------------------------------------------------------------------------------------------------------|-------------|-------------------------|-------------------|-------------------------------------------|----------------------|---------------------------------------------------|
| Type Test<br><input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special |             |                         |                   |                                           | Test Date<br>7-22-80 |                                                   |
| Company<br>El Paso Natural Gas Company                                                                                    |             |                         |                   | Connection<br>El Paso Natural Gas Company |                      |                                                   |
| Pool<br>Blanco                                                                                                            |             |                         |                   | Formation<br>Mesa Verde                   |                      | Unit                                              |
| Completion Date<br>6-28-80                                                                                                |             | Total Depth<br>5441     |                   | Plug Back TD<br>5424                      |                      | Elevation<br>6326 GL                              |
| Farm or Lease Name<br>Hardie E                                                                                            |             |                         |                   |                                           |                      |                                                   |
| Csq. Size<br>7.000                                                                                                        | Wt.<br>20.0 | d<br>6.456              | Set At<br>3150    | Perforations:<br>From 4376 To 5400        |                      | Well No.<br>2A (MV)                               |
| Thg. Size<br>2.375                                                                                                        | Wt.<br>4.7  | d<br>1.995              | Set At<br>5388    | Perforations:<br>From To                  |                      | Unit    Sec.    Twp.    Rge.<br>P    9    28    8 |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple<br>G.G. Dual                                                      |             |                         |                   | Packer Set At<br>2994                     |                      | County<br>Rio Arriba                              |
| Producing Thru                                                                                                            |             | Reservoir Temp. °F<br>a |                   | Mean Annual Temp. °F                      |                      | Baro. Press. - P <sub>a</sub><br>12               |
| State<br>New Mexico                                                                                                       |             |                         |                   |                                           |                      |                                                   |
| L                                                                                                                         | H           | Gg<br>0.710             | % CO <sub>2</sub> | % N <sub>2</sub>                          | % H <sub>2</sub> S   | Prover                                            |
| Meter Run                                                                                                                 |             | Taps                    |                   |                                           |                      |                                                   |

  

| FLOW DATA |                  |   |              |                 |                      | TUBING DATA |                 | CASING DATA |                 | Duration of Flow |          |
|-----------|------------------|---|--------------|-----------------|----------------------|-------------|-----------------|-------------|-----------------|------------------|----------|
| NO.       | Prover Line Size | X | Orifice Size | Press. p.s.i.g. | Diff. h <sub>w</sub> | Temp. °F    | Press. p.s.i.g. | Temp. °F    | Press. p.s.i.g. |                  | Temp. °F |
| SI        | 2"               |   | 0.750        |                 |                      |             | 410             |             |                 |                  | 24 Days  |
| 1.        |                  |   |              | 134             |                      | 67          |                 |             |                 |                  | 3 Hr.    |
| 2.        |                  |   |              |                 |                      |             |                 |             |                 |                  |          |
| 3.        |                  |   |              |                 |                      |             |                 |             |                 |                  |          |
| 4.        |                  |   |              |                 |                      |             |                 |             |                 |                  |          |
| 5.        |                  |   |              |                 |                      |             |                 |             |                 |                  |          |

  

| RATE OF FLOW CALCULATIONS |                       |                  |                         |                      |                   |                             |                      |
|---------------------------|-----------------------|------------------|-------------------------|----------------------|-------------------|-----------------------------|----------------------|
| NO.                       | Coefficient (24 Hour) | $\sqrt{h_w P_m}$ | Pressure P <sub>m</sub> | Flow Temp. Factor Ft | Gravity Factor Fg | Super Compress. Factor, Fpv | Rate of Flow Q, Mcfd |
| 1                         | 12.365                |                  | 146                     | 0.9933               | 0.9193            | 1.016                       | 1675                 |
| 2.                        |                       |                  |                         |                      |                   |                             |                      |
| 3                         |                       |                  |                         |                      |                   |                             |                      |
| 4.                        |                       |                  |                         |                      |                   |                             |                      |
| 5.                        |                       |                  |                         |                      |                   |                             |                      |

  

|     |                |          |                |   |                                                  |
|-----|----------------|----------|----------------|---|--------------------------------------------------|
| NO. | P <sub>r</sub> | Temp. °R | T <sub>r</sub> | Z | Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.      |
| 1   |                |          |                |   | A.P.I. Gravity of Liquid Hydrocarbons _____ Deg. |
| 2.  |                |          |                |   | Specific Gravity Separator Gas _____             |
| 3.  |                |          |                |   | Specific Gravity Flowing Fluid _____             |
| 4.  |                |          |                |   | Critical Pressure _____ P.S.I.A.                 |
| 5.  |                |          |                |   | Critical Temperature _____ R                     |

  

|                    |                                    |                                            |                                                             |
|--------------------|------------------------------------|--------------------------------------------|-------------------------------------------------------------|
| P <sub>c</sub> 422 | P <sub>c</sub> <sup>2</sup> 178084 | (1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.8495$ | (2) $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.5860$ |
| NO.                | P <sub>r</sub> <sup>2</sup>        | P <sub>w</sub>                             | P <sub>w</sub> <sup>2</sup>                                 |
| 1                  | 21316                              | 286                                        | 81796                                                       |
| 2                  |                                    |                                            |                                                             |
| 3                  |                                    |                                            |                                                             |
| 4                  |                                    |                                            |                                                             |
| 5                  |                                    |                                            |                                                             |

  

|                                       |  |                  |               |
|---------------------------------------|--|------------------|---------------|
| Absolute Open Flow 2656 Mcfd @ 15.025 |  | Angle of Slope θ | Slope, n 0.75 |
|---------------------------------------|--|------------------|---------------|

  

Remarks: 4 1/2" Liner From 3001 to 5441 271 MCF Gas Was Produced During the Test

  

|                         |                              |                                  |             |
|-------------------------|------------------------------|----------------------------------|-------------|
| Approved By Commission: | Conducted By:<br>N. Waggoner | Calculated By:<br>H. E. McAnally | Checked By: |
|-------------------------|------------------------------|----------------------------------|-------------|